




- SCALE
- 0.25 0 0.25 0.5 0.75 0.1 1.25 [m]
- 1:25

Reference Drawings			
Drwg. No.		Title	
Revisions			
	Name	Date	Notes
 <p><b>TAMAKOSHI V HYDROELECTRIC PROJECT</b>  <b>PROJECT DEVELOPMENT DEPARTMENT</b>  <b>ENGINEERING SERVICES DIRECTORATE</b>  <b>NEPAL ELECTRICITY AUTHORITY</b></p>			
 <p><b>LAHMEYER</b>  <b>INTERNATIONAL</b></p>		<p><b>CONSULTING ENGINEERS</b>  <b>BAD VILBEL, GERMANY</b></p>	
<p align="center"><b>TAMAKOSHI V HYDROELECTRIC PROJECT</b>  <b>DETAILED ENGINEERING DESIGN</b></p>			
	Name	Date	<p>DETAILED DESIGN</p> <p><u>STANDARD DETAILS</u></p> <p><u>WATERSTOP / JOINT</u></p> <p>SECTIONS</p> <p>PROJECT DRAWING</p>
Prepared	B. Khadka	31.07.17	
Drawn	B. Khadka		
Checked	Roloff		
Approved	Dr. Moeller		
Replaces Drwg. No.: 31-00053-DD-4300-Y-0000_-			
CAD- File No.:			
Scale A3: 1:25			Drwg. No.: 31-00053-DD-4300-Q 1701
			REV. —

Reference Drawings				
Drwg. No.		Title		
Revisions				
		Name	Date	Notes




**TAMAKOSHI V HYDROELECTRIC PROJECT**

PROJECT DEVELOPMENT DEPARTMENT

ENGINEERING SERVICES DIRECTORATE

NEPAL ELECTRICITY AUTHORITY



**LAHMEYER**  
INTERNATIONAL

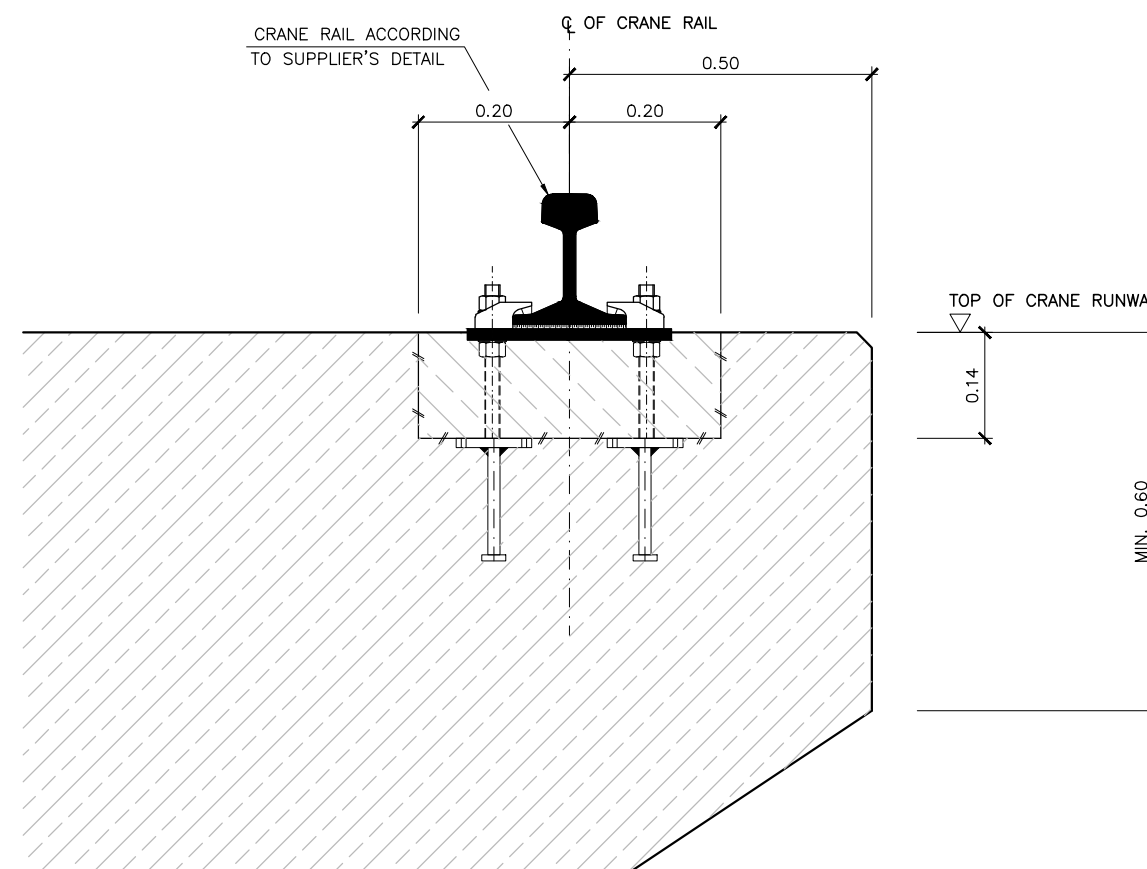
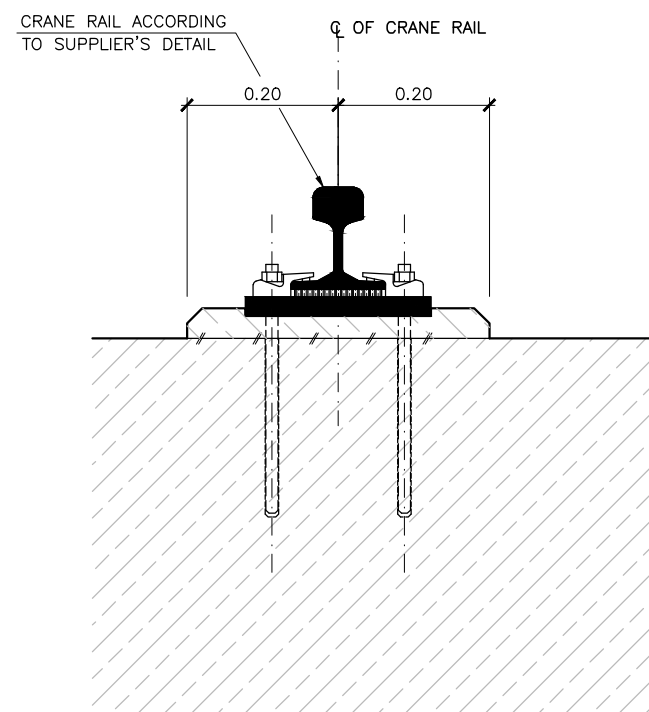
CONSULTING ENGINEERS

BAD VILBEL, GERMANY

**TAMAKOSHI V HYDROELECTRIC PROJECT**

**DETAILED ENGINEERING DESIGN**

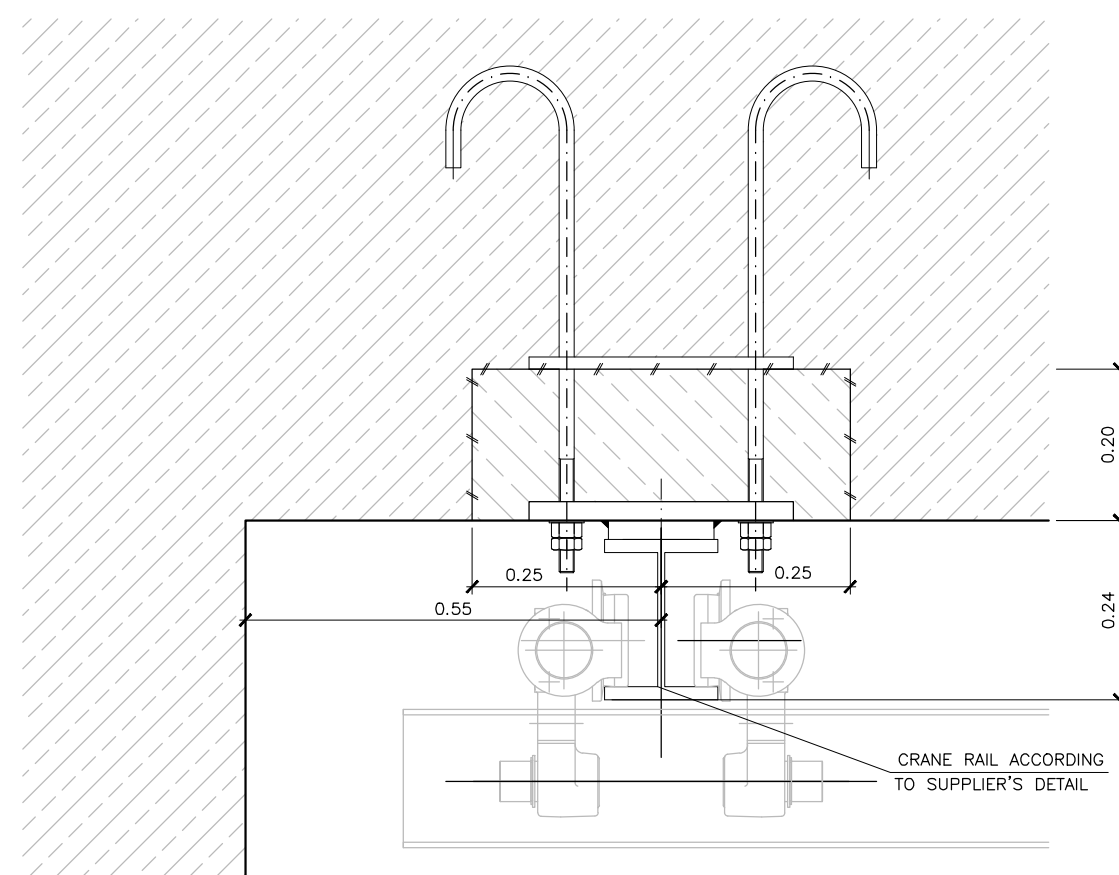
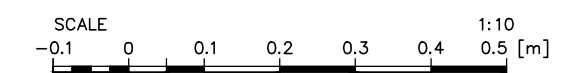
	Name	Date	<p>DETAILED DESIGN</p> <p><u>STANDARD DETAILS</u></p> <p><u>WATERSTOP / JOINT</u></p> <p>SECTIONS</p> <p>PROJECT DRAWING</p>
Prepared	B. Khadka	31.07.17	
Drawn	B. Khadka		
Checked	Roloff		
Approved	Dr. Moeller		
Replaces Drwg. No: 31-00053-DD-4300-Y-0000_-			
CAD- File No.:			
Scale A3: 1:20, 1:10			Drwg. No.: 31-00053-DD-4300- <b>Q 1702</b>
			REV. -





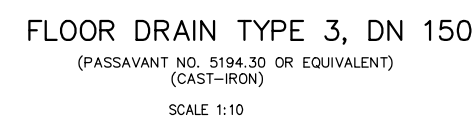
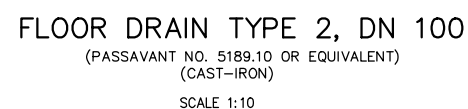
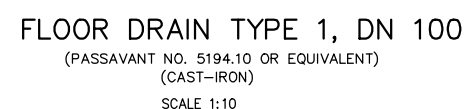
NOTES:

1. ALL DIMENSIONS ARE IN METERS [m] UNLESS OTHERWISE NOTED.
2. ALL ELEVATIONS ARE ABOVE SEA LEVEL IN [masl].
3. CO-ORDINATES BASED ON NATIONAL GEODETIC NETWORK SYSTEM (EVEREST 1830).
4. STANDARD DETAILS AS SHOWN ONLY FOR GENERAL PURPOSE AND MIGHT NEED TO BE ADJUSTED ACCORDING TO THE DETAIL REQUIREMENTS.

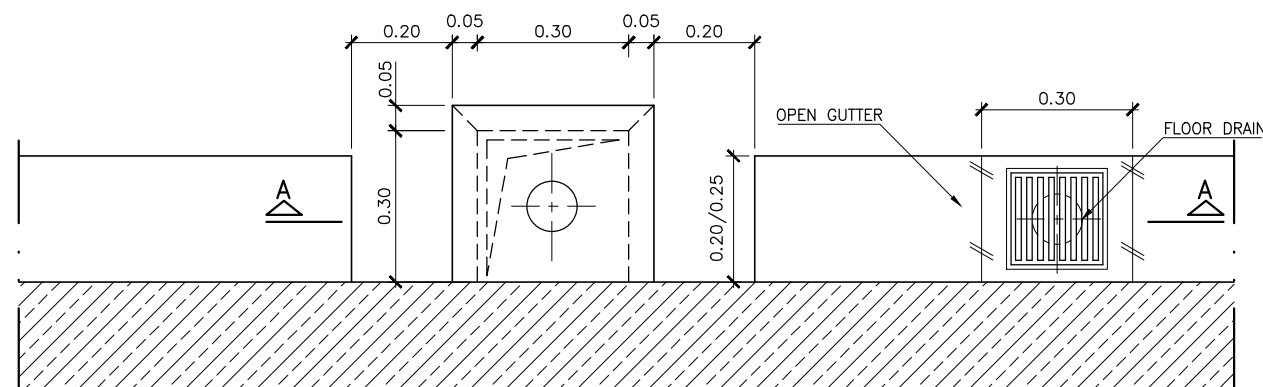
DRAFT STATUS:  
05.11.2018



Reference Drawings					
Drwg. No.			Title		
Revisions					
	Name	Date	Notes		
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 <b>LAHMEYER INTERNATIONAL</b>			CONSULTING ENGINEERS BAD VILBEL, GERMANY		
<p><b>TAMAKOSHI V HYDROELECTRIC PROJECT</b></p> <p><b>DETAILED ENGINEERING DESIGN</b></p>					
	Name	Date	DETAILED DESIGN  <u>STANDARD DETAILS</u>  <u>FIXATION OF CRANE RAILS</u>   SECTIONS  PROJECT DRAWING		
Prepared	B. Khadka	31.07.17			
Drawn	B. Khadka				
Checked	Roloff				
Approved	Dr. Moeller				
Replaces Drwg. No: 31-00053-DD-4300-Y-0000_-					
<u>CAD- File No.:</u>					
Scale A3:     1:10			Drwg. No.: 31-00053-DD-4300-Q 1703 REV.		



### TYPICAL DETAIL OF FLOOR DRAIN AND BLOCKOUT IN SLAB

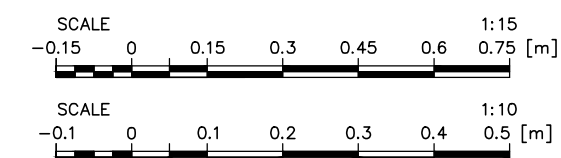


PLAN  
SCALE 1:15



NOTES:

1. ALL DIMENSIONS ARE IN METERS [m] UNLESS OTHERWISE NOTED.
2. ALL ELEVATIONS ARE ABOVE SEA LEVEL IN [masl].
3. CO-ORDINATES BASED ON NATIONAL GEODETIC NETWORK SYSTEM (EVEREST 1830).
4. STANDARD DETAILS AS SHOWN ONLY FOR GENERAL PURPOSE AND MIGHT NEED TO BE ADJUSTED ACCORDING TO THE DETAIL REQUIREMENTS.

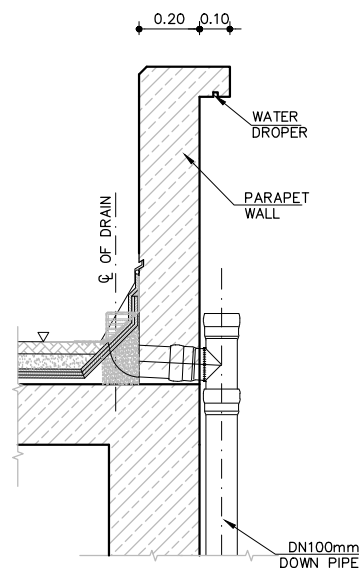
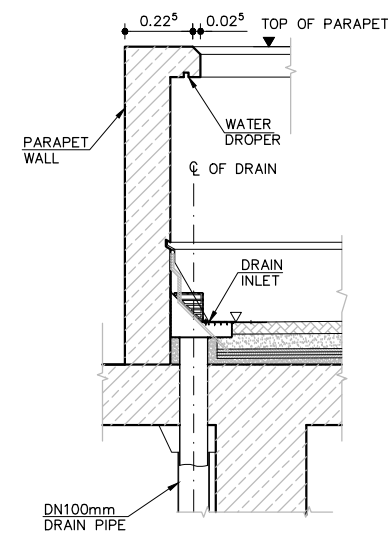
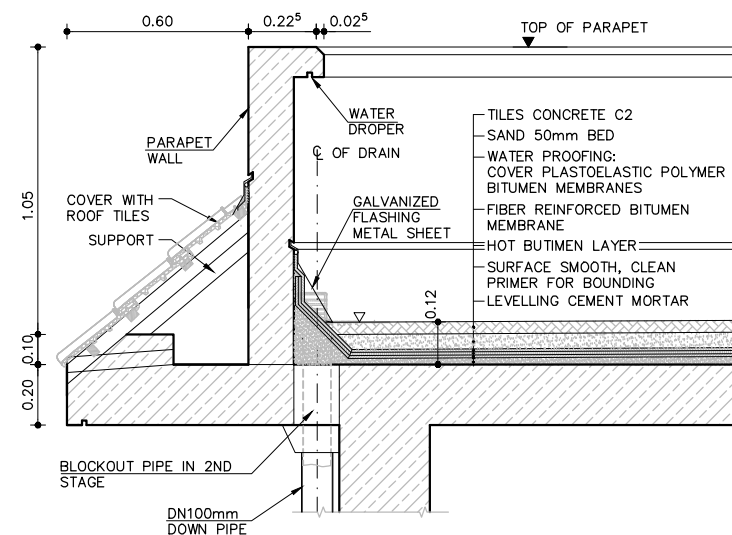
DRAFT STATUS:  
05.11.2018



Reference Drawings				
Drwg. No.		Title		
Revisions				
	Name	Date	Notes	

	TAMAKOSHI V HYDROELECTRIC PROJECT PROJECT DEVELOPMENT DEPARTMENT ENGINEERING SERVICES DIRECTORATE NEPAL ELECTRICITY AUTHORITY	
 LAHMEYER INTERNATIONAL	CONSULTING ENGINEERS BAD VILBEL, GERMANY	

TAMAKOSHI V HYDROELECTRIC PROJECT DETAILED ENGINEERING DESIGN					
	Name	Date	DETAILED DESIGN		
Prepared	B. Khadka	31.07.17	<u>STANDARD DETAILS</u> <u>FLOOR DRAINS</u>		
Drawn	B. Khadka				
Checked	Roloff				
Approved	Dr. Moeller				
Replaces Drwg. No: 31-00053-DD-4300-Y-0000_-			PLAN AND SECTIONS  PROJECT DRAWING		
CAD- File No.:					
Scale A3:	1:10 ,1 :15		Drwg. No.: 31-00053-DD-4300-	Q 1704	REV. -





- NOTES:

1. ALL DIMENSIONS ARE IN METERS [m] UNLESS OTHERWISE NOTED.
2. ALL ELEVATIONS ARE ABOVE SEA LEVEL IN [masl].
3. CO-ORDINATES BASED ON NATIONAL GEODETIC NETWORK SYSTEM (EVEREST 1830).
4. STANDARD DETAILS AS SHOWN ONLY FOR GENERAL PURPOSE AND MIGHT NEED TO BE ADJUSTED ACCORDING TO THE DETAIL REQUIREMENTS.

DRAFT STATUS:  
05.11.2018



Reference Drawings			
Drwg. No.		Title	
Revisions			
	Name	Date	Notes
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  <p><b>TAMAKOSHI V HYDROELECTRIC PROJECT</b>  <b>PROJECT DEVELOPMENT DEPARTMENT</b>  <b>ENGINEERING SERVICES DIRECTORATE</b>  <b>NEPAL ELECTRICITY AUTHORITY</b></p> </div> <div style="text-align: center;">  <p><b>LAHMEYER</b>  <b>INTERNATIONAL</b></p> </div> <div style="text-align: center;"> <p><b>CONSULTING ENGINEERS</b>  <b>BAD VILBEL, GERMANY</b></p> </div> </div>			
<b>TAMAKOSHI V HYDROELECTRIC PROJECT</b> <b>DETAILED ENGINEERING DESIGN</b>			
	Name	Date	<b>DETAILED DESIGN</b>  <u><b>STANDARD DETAILS</b></u>  <u><b>ROOF SEALING AND DRAINS</b></u>   <b>SECTIONS</b>  <b>PROJECT DRAWING</b>
Prepared	B. Khadka	31.07.17	
Drawn	B. Khadka		
Checked	Roloff		
Approved	Dr. Moeller		
Replaces Drwg. No: 31-00053-DD-4300-Y-0000_-			
CAD- File No.:			
Scale A3: 1:25			Drwg. No.: 31-00053-DD-4300- <b>Q 1705</b>
			REV. —

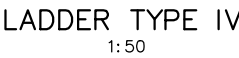
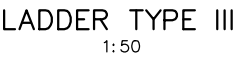
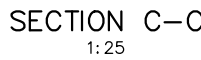
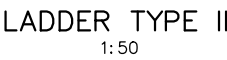








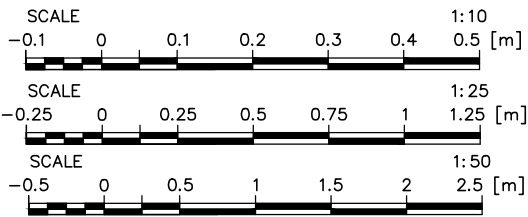






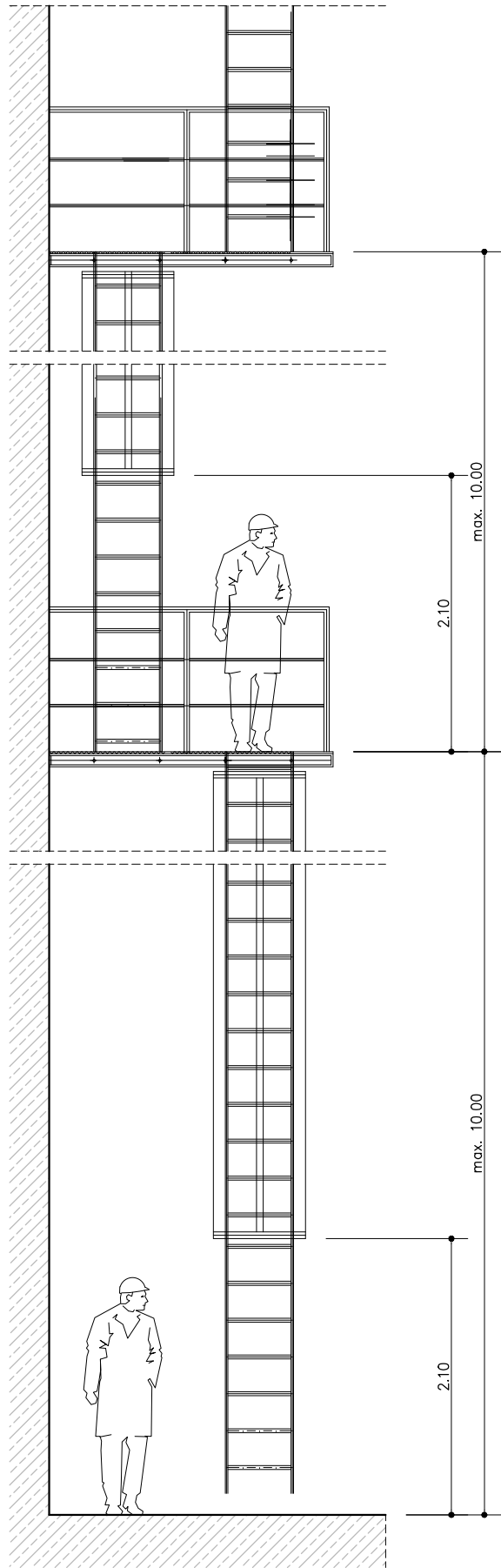
- ### NOTES:
1. ALL DIMENSIONS ARE IN METERS [m] UNLESS OTHERWISE NOTED.
  2. ALL ELEVATIONS ARE ABOVE SEA LEVEL IN [masl].
  3. CO-ORDINATES BASED ON NATIONAL GEODETIC NETWORK SYSTEM (EVEREST 1830).
  4. STANDARD DETAILS AS SHOWN ONLY FOR GENERAL PURPOSE AND MIGHT NEED TO BE ADJUSTED ACCORDING TO THE DETAIL REQUIREMENTS.
  5. MATERIALS: STRUCTURAL STEEL AND CHEQUERED PLATES EXECUTE ACC. TO ASTM.
  6. ALL WELDS HAVE TO BE EXECUTED IN ACCORDANCE ACC. TO AWS.
  7. WELD STRAP ANCHORS TO FRAMES; ETC.: WITH 3 MM FILLET WELD AROUND.
  8. ALL EXPOSED STEEL SHALL BE HOT DIP GALVANIZED ACC. TO BS 729.

LEGEND:

TYPE	GRATING OR COVER ON TOP	MAX. WIDTH m	HEIGHT m	SAFETY CAGE
I	NO	—	<= 5	NO
II	NO	> 1.20	> 5	YES
III	YES	<= 1.20	—	NO
IV	YES	> 1.20	> 5	YES



Reference Drawings			
Drwg. No.		Title	
Revisions			
	Name	Date	Notes
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  <p><b>TAMAKOSHI V HYDROELECTRIC PROJECT</b>  <b>PROJECT DEVELOPMENT DEPARTMENT</b>  <b>ENGINEERING SERVICES DIRECTORATE</b>  <b>NEPAL ELECTRICITY AUTHORITY</b></p> </div> <div style="text-align: center;">  <p><b>LAHMEYER</b>  <b>INTERNATIONAL</b></p> </div> <div style="text-align: center;"> <p><b>CONSULTING ENGINEERS</b>  <b>BAD VILBEL, GERMANY</b></p> </div> </div>			
<b>TAMAKOSHI V HYDROELECTRIC PROJECT</b> <b>DETAILED ENGINEERING DESIGN</b>			
	Name	Date	<b>DETAILED DESIGN</b>  <u><b>STANDARD DETAILS</b></u>  <u><b>LADDERS</b></u>  <b>SECTIONS AND DETAILS</b>  <b>PROJECT DRAWING</b>
Prepared	B. Khadka	31.07.17	
Drawn	B. Khadka		
Checked	Roloff		
Approved	Dr. Moeller		
Replaces Drwg. No: 31-00053-DD-4300-Y-0000_			
CAD- File No.:			
Scale A3: 1:10, 1:25, 1:50			Drwg. No.: 31-00053-DD-4300-Q 1709
			REV. -




LANDINGS OF LADDERS FOR  
HEIGHT DIFFERENCE ABOVE 10 m  
TYPICAL ARRANGEMENT


- NOTES:**
1. ALL DIMENSIONS ARE IN METERS [m] UNLESS OTHERWISE NOTED.
  2. ALL ELEVATIONS ARE ABOVE SEA LEVEL IN [masl].
  3. CO-ORDINATES BASED ON NATIONAL GEODETIC NETWORK SYSTEM (EVEREST 1830).
  4. STANDARD DETAILS AS SHOWN ONLY FOR GENERAL PURPOSE AND MIGHT NEED TO BE ADJUSTED ACCORDING TO THE DETAIL REQUIREMENTS.
  5. MATERIALS: STRUCTURAL STEEL AND CHEQUERED PLATES EXECUTE ACC. TO ASTM.
  6. ALL WELDS HAVE TO BE EXECUTED IN ACCORDANCE ACC. TO AWS.
  7. WELD STRAP ANCHORS TO FRAMES; ETC.: WITH 3 MM FILLET WELD AROUND.
  8. ALL EXPOSED STEEL SHALL BE HOT DIP GALVANIZED ACC. TO BS 729.



Reference Drawings			
Drwg. No.		Title	
Revisions			
	Name	Date	Notes



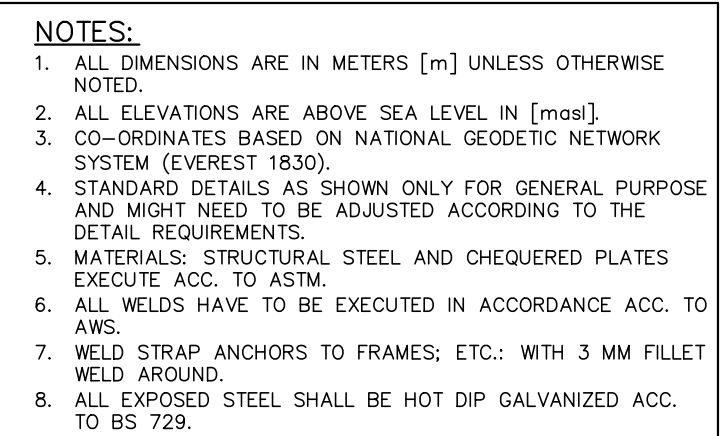
TAMAKOSHI V HYDROELECTRIC PROJECT  
PROJECT DEVELOPMENT DEPARTMENT  
ENGINEERING SERVICES DIRECTORATE  
NEPAL ELECTRICITY AUTHORITY

LAHMEYER  
INTERNATIONAL

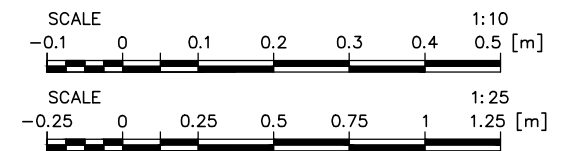
CONSULTING ENGINEERS  
BAD VILBEL, GERMANY

TAMAKOSHI V HYDROELECTRIC PROJECT  
DETAILED ENGINEERING DESIGN


	Name	Date	DETAILED DESIGN  STANDARD DETAILS LADDERS  SECTION  PROJECT DRAWING		
Prepared	B. Khadka	31.07.17			
Drawn	B. Khadka				
Checked	Roloff				
Approved	Dr. Moeller				
Replaces Drwg. No: 31-00053-DD-4300-Y-0000_					
CAD- File No.:					
Scale A3: 1:50			Drwg. No.: 31-00053-DD-4300-Q 1710	REV.	-



DRAFT STATUS:  
05.11.2018



Reference Drawings			
Drwg. No.		Title	
Revisions			
	Name	Date	Notes




**TAMAKOSHI V HYDROELECTRIC PROJECT**

PROJECT DEVELOPMENT DEPARTMENT

ENGINEERING SERVICES DIRECTORATE

NEPAL ELECTRICITY AUTHORITY



LAHMEYER  
INTERNATIONAL

CONSULTING ENGINEERS  
BAD VILBEL, GERMANY

**TAMAKOSHI V HYDROELECTRIC PROJECT**

**DETAILED ENGINEERING DESIGN**

	Name	Date	DETAILED DESIGN  <u>STANDARD DETAILS</u>  <u>HANDRAIL</u> <u>TYPE 1 AND TYPE 2</u> PLAN AND SECTION  PROJECT DRAWING
Prepared	B. Khadka	31.07.17	
Drawn	B. Khadka		
Checked	Roloff		
Approved	Dr. Moeller		
Replaces Drwg. No: 31-00053-DD-4300-Y-0000_-			
CAD- File No.:			
Scale A3: 1:10 , 1:25			Drwg. No.: 31-00053-DD-4300-Q 1711
			REV. —



0.12

125 DIA. x 10 THK. GALVANISED M.S. BASE PLATE

3 THICK RUBBER GASKET

12mm DIA. x 100mm LONG C/C HOLDING DOWN BOLT

SCALE 1:5



50 x 6 THICK. GALVANISED  
M.S. FB WELDED TO POST

125 DIA. x 10 THK. GALVANISED  
M.S. BASE PLATE

0.05

0.05

3 THICK RUBBER GASKET

12mm DIA. x 100mm LONG C/C  
HOLDING DOWN BOLT

0.10

**SECTION B-B**

SCALE 1:10

SECTION B-B  
SCALE 1:10



DETAIL "X"  
SCALE 1:20

12mmØ x 100mm LONG  
C/C HOLDING DOWN  
BOLT

0.08

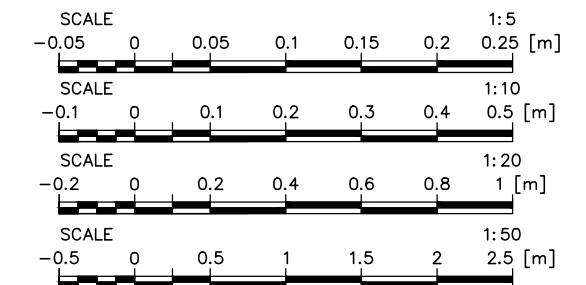
2 NOS. 15 Ø 12  
HOLES FOR Ø s/s BOLTS



0.075

EDGE OF STRUCTURE

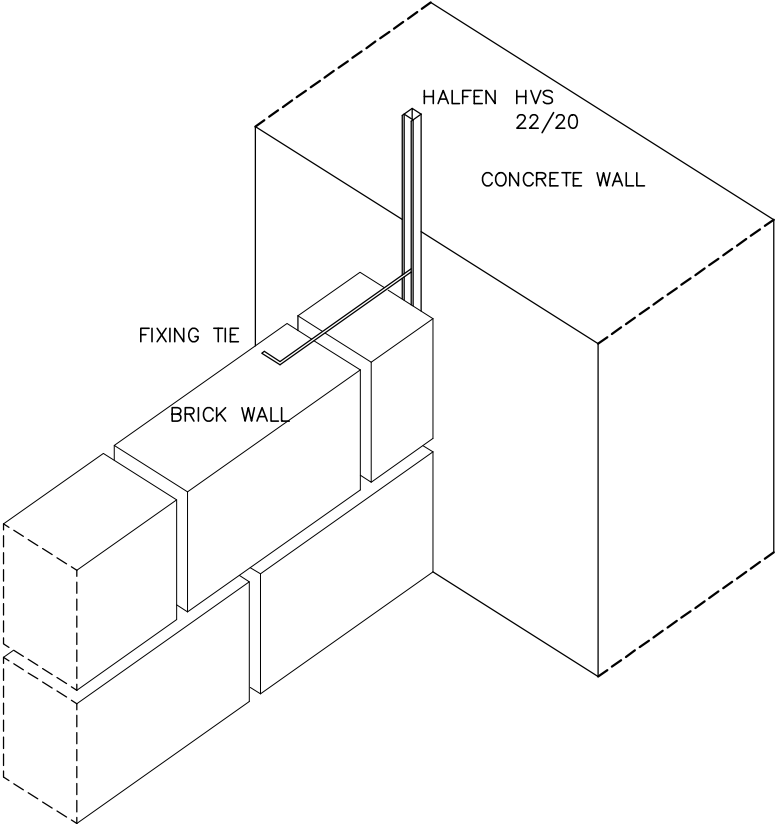
DETAIL "Y" - BASE DETAIL  
SCALE 1:5

DRAFT STATUS:  
05.11.2018

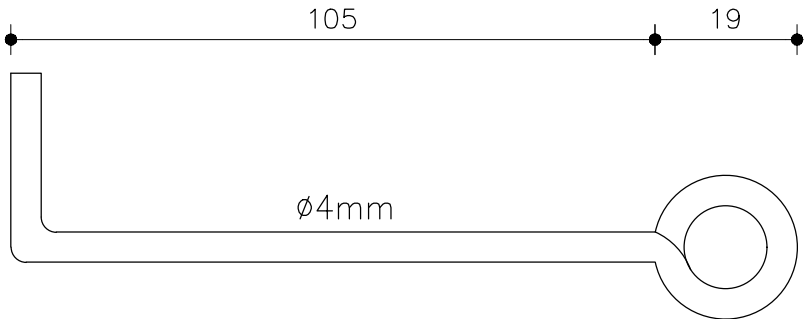
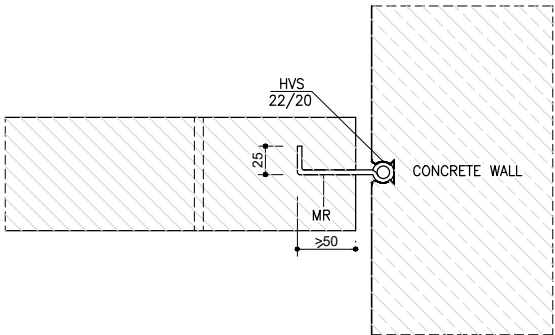


Reference Drawings			
Drwg. No.		Title	
Revisions			
	Name	Date	Notes
 <b>TAMAKOSHI V HYDROELECTRIC PROJECT</b> PROJECT DEVELOPMENT DEPARTMENT ENGINEERING SERVICES DIRECTORATE NEPAL ELECTRICITY AUTHORITY			
 <b>LAHMEYER</b> INTERNATIONAL		CONSULTING ENGINEERS BAD VILBEL, GERMANY	
<b>TAMAKOSHI V HYDROELECTRIC PROJECT</b> <b>DETAILED ENGINEERING DESIGN</b>			
	Name	Date	DETAILED DESIGN <u>STANDARD DETAILS</u> <u>HAND RAILING</u> <u>TYPE 3</u> PLAN AND SECTION  PROJECT DRAWING
Prepared	B. Khadka	31.07.17	
Drawn	B. Khadka		
Checked	Roloff		
Approved	Dr. Moeller		
Replaces Drwg. No: 31-00053-DD-4300-Y-0000_-			
CAD- File No.:			
Scale A3: 1:5, :10, :20, :50			Drwg. No.: 31-00053-DD-4300- <b>Q 1712</b>
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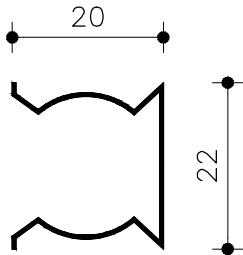




FIXING OF BRICK WALLS  
TYP. DETAILS



FIXING TIE  
TYPE HALFEN MR 105 (OR EQUIVALENT)




CAST-IN CHANNEL  
TYPE HALFEN HVS 22/20 (OR EQUIVALENT)

NOTES:


1. ALL DIMENSIONS ARE IN METERS [m] UNLESS OTHERWISE NOTED.
2. ALL ELEVATIONS ARE ABOVE SEA LEVEL IN [masl].
3. CO-ORDINATES BASED ON NATIONAL GEODETIC NETWORK SYSTEM (EVEREST 1830).
4. STANDARD DETAILS AS SHOWN ONLY FOR GENERAL PURPOSE AND MIGHT NEED TO BE ADJUSTED ACCORDING TO THE DETAIL REQUIREMENTS.

DRAFT STATUS:  
05.11.2018

Reference Drawings			
Drwg. No.		Title	
Revisions			
	Name	Date	Notes



TAMAKOSHI V HYDROELECTRIC PROJECT  
PROJECT DEVELOPMENT DEPARTMENT  
ENGINEERING SERVICES DIRECTORATE  
NEPAL ELECTRICITY AUTHORITY

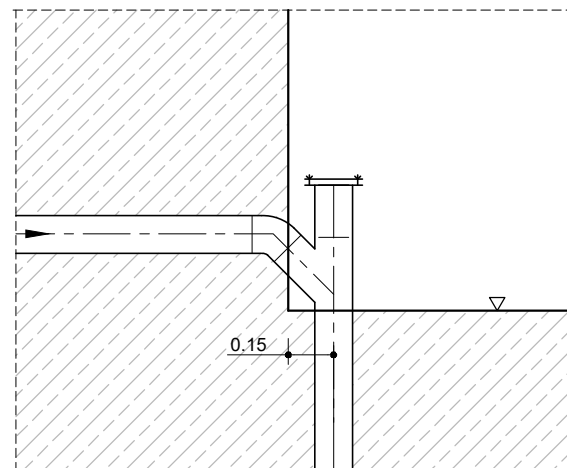
LAHMEYER  
INTERNATIONAL

CONSULTING ENGINEERS  
BAD VILBEL, GERMANY

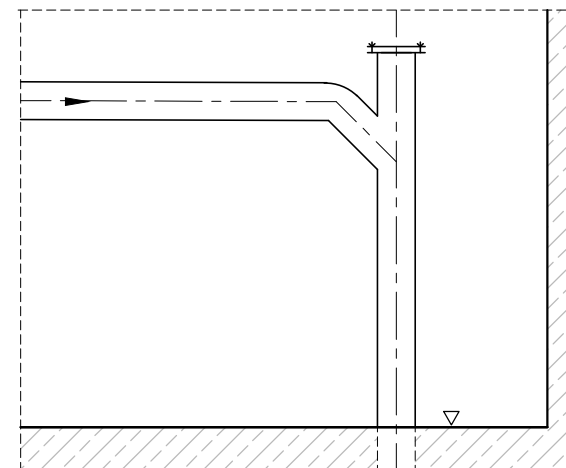
TAMAKOSHI V HYDROELECTRIC PROJECT  
DETAILED ENGINEERING DESIGN

	Name	Date	DETAILED DESIGN  <u>STANDARD DETAILS</u> <u>BRICK WALL FIXING DETAILS</u>  DETAILS  PROJECT DRAWING		
Prepared	B. Khadka	31.07.17			
Drawn	B. Khadka				
Checked	Roloff				
Approved	Dr. Moeller				
Replaces Drwg. No: 31-00053-DD-4300-Y-0000_					
CAD- File No.:					
Scale A3: NOT IN SCALE			Drwg. No.: 31-00053-DD-4300-Q 1713	REV.	-

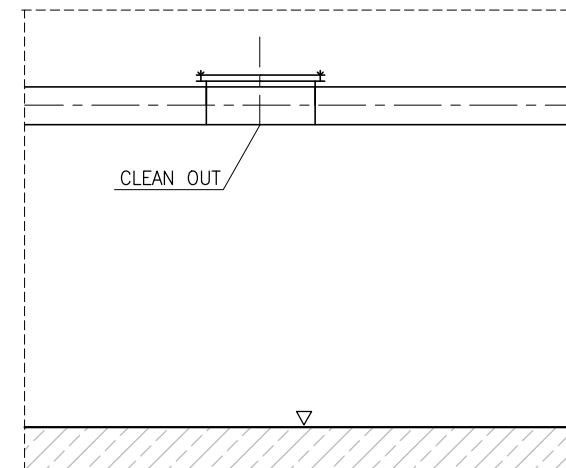
TYP. DETAIL OF CLEAN OUT



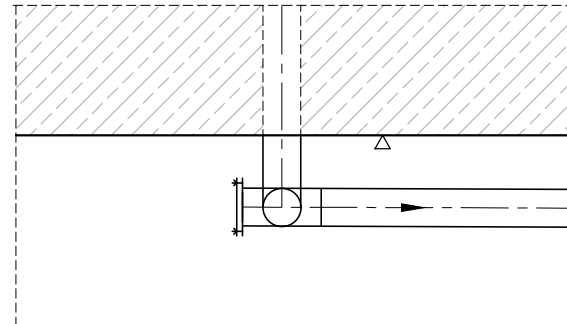
TYP. DETAIL OF CLEAN OUT



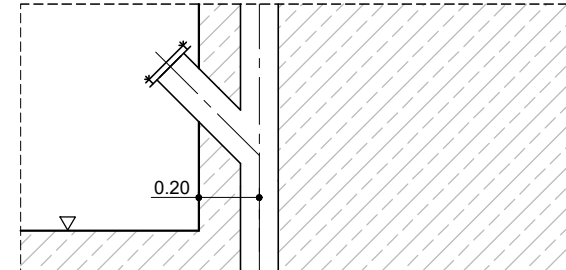
TYP. ARRANGEMENT OF CLEAN OUT  
IN HORIZONTAL PIPE FIXED ON WALL



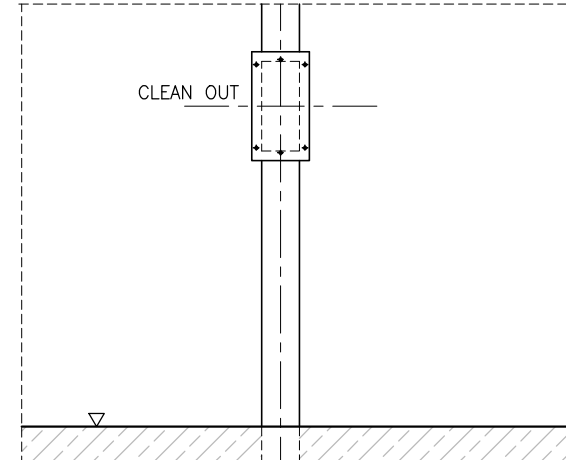
DETAIL  
TYP. DETAIL OF CLEAN OUT



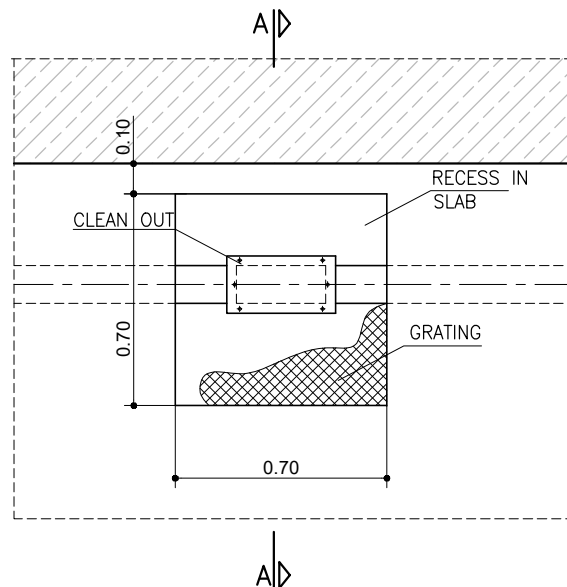
TYP. DETAIL OF CLEAN OUT



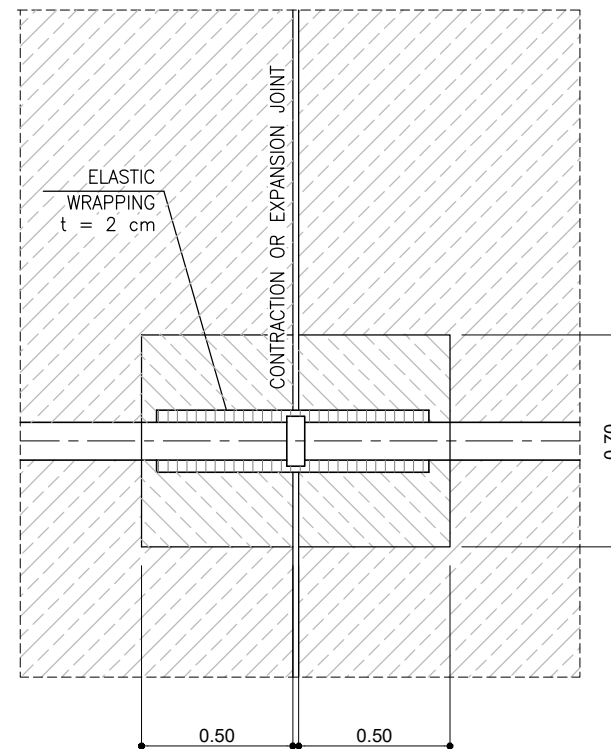
TYP. DETAIL OF CLEAN OUT  
IN VERTICAL PIPE FIXED ON WALL



TYP. ARRANGEMENT OF CLEAN OUT  
IN SLAB RECESS




## PIPE CROSSING JOINT



1. ALL DIMENSIONS ARE IN METERS [m] UNLESS OTHERWISE NOTED.
2. ALL ELEVATIONS ARE ABOVE SEA LEVEL IN [masl].
3. CO-ORDINATES BASED ON NATIONAL GEODETIC NETWORK SYSTEM (EVEREST 1830).
4. STANDARD DETAILS AS SHOWN ONLY FOR GENERAL PURPOSE AND MIGHT NEED TO BE ADJUSTED ACCORDING TO THE DETAIL REQUIREMENTS.

DRAFT STATUS:  
05.11.2018

Reference Drawings				
Drwg. No.		Title		
Revisions				
	Name	Date	Notes	




TAMAKOSHI V HYDROELECTRIC PROJECT

PROJECT DEVELOPMENT DEPARTMENT

ENGINEERING SERVICES DIRECTORATE

NEPAL ELECTRICITY AUTHORITY

LAHMEYER  
INTERNATIONAL

CONSULTING ENGINEERS  
BAD VILBEL, GERMANY

TAMAKOSHI V HYDROELECTRIC PROJECT

DETAILED ENGINEERING DESIGN

	Name	Date	DETAILED DESIGN  <u>STANDARD DETAILS</u>  <u>DRAIN PIPE WORKS</u>  DETAILS  PROJECT DRAWING	
Prepared	B. Khadka	31.07.17		
Drawn	B. Khadka			
Checked	Roloff			
Approved	Dr. Moeller			
Replaces Drwg. No: 31-00053-DD-4300-Y-0000_-				
CAD- File No.:				
Scale A3: NOT IN SCALE			Drwg. No.: 31-00053-DD-4300-Q 1714	REV. —


### NOTES:

1. ALL DIMENSIONS ARE IN METERS [m] UNLESS OTHERWISE NOTED.
2. ALL ELEVATIONS ARE ABOVE SEA LEVEL IN [masl].
3. CO-ORDINATES BASED ON NATIONAL GEODETIC NETWORK SYSTEM (EVEREST 1830).
4. STANDARD DETAILS AS SHOWN ONLY FOR GENERAL PURPOSE AND MIGHT NEED TO BE ADJUSTED ACCORDING TO THE DETAIL REQUIREMENTS.


DRAFT STATUS:  
05.11.2018



Reference Drawings				
Drwg. No.		Title		
Revisions				
	Name	Date	Notes	



TAMAKOSHI V HYDROELECTRIC PROJECT  
PROJECT DEVELOPMENT DEPARTMENT  
ENGINEERING SERVICES DIRECTORATE  
NEPAL ELECTRICITY AUTHORITY

LAHMEYER  
INTERNATIONAL

CONSULTING ENGINEERS  
BAD VILBEL, GERMANY

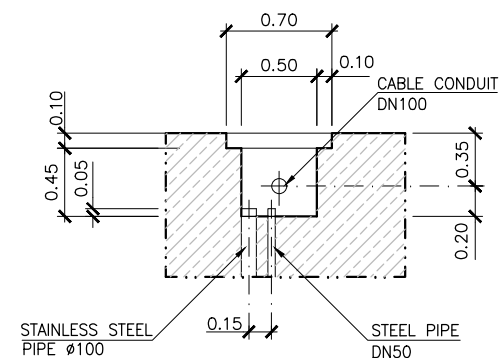
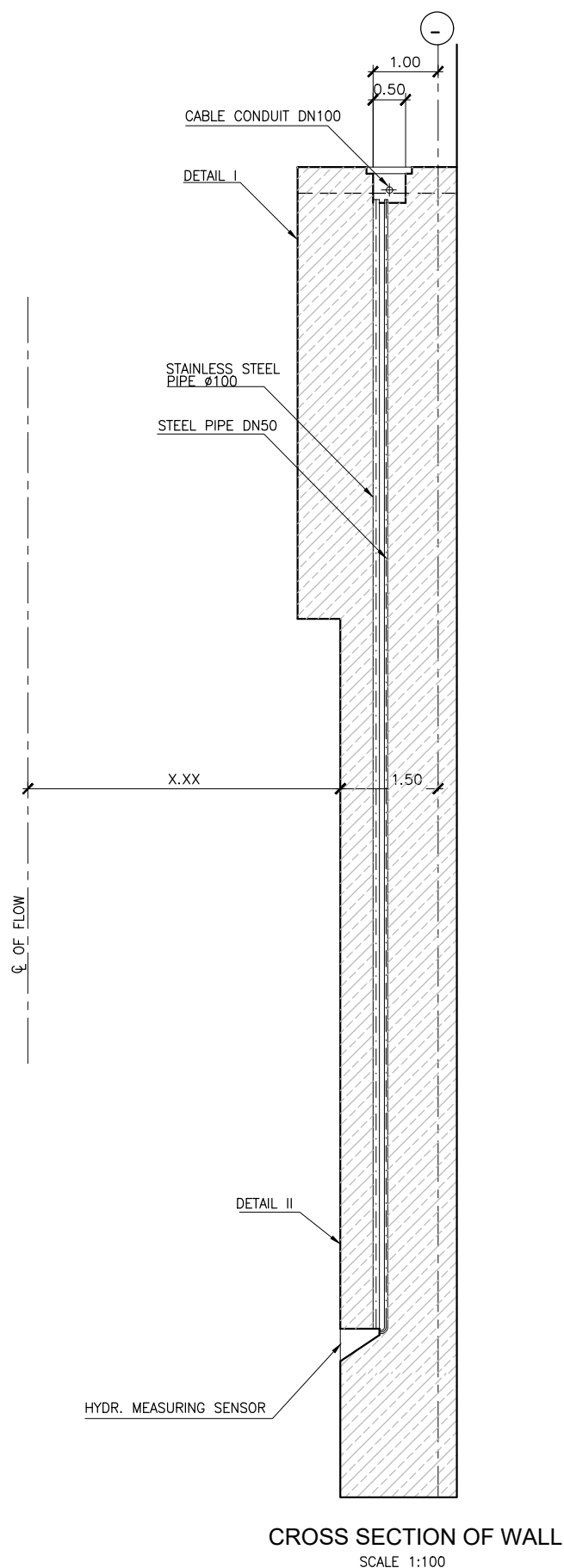
TAMAKOSHI V HYDROELECTRIC PROJECT  
DETAILED ENGINEERING DESIGN

	Name	Date	DETAILED DESIGN  <u>STANDARD DETAILS</u> <u>HYDRAULIC MEASURING SENSOR</u>   PLAN AND SECTION  PROJECT DRAWING
Prepared	B. Khadka	31.07.17	
Drawn	B. Khadka		
Checked	Roloff		
Approved	Dr. Moeller		
Replaces Drwg. No: 31-00053-DD-4300-Y-0000_-			
CAD- File No.:			

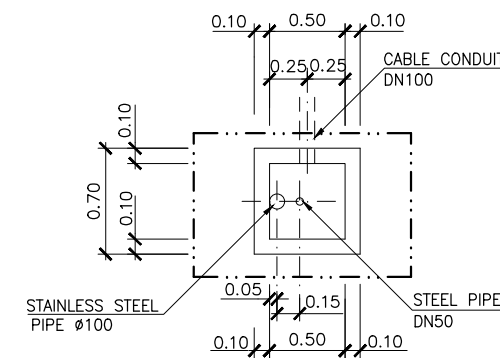
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Drwg. No.: 31-00053-DD-4300-Q 1715

REV. -

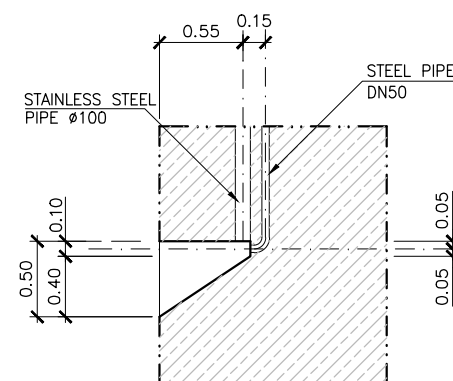


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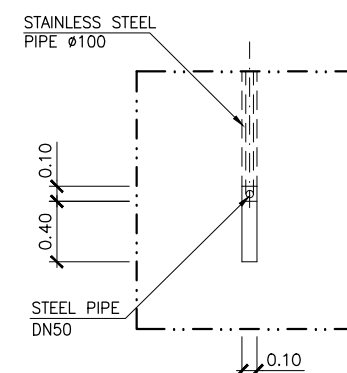


PLAN

DETAIL I  
SCALE 1:50



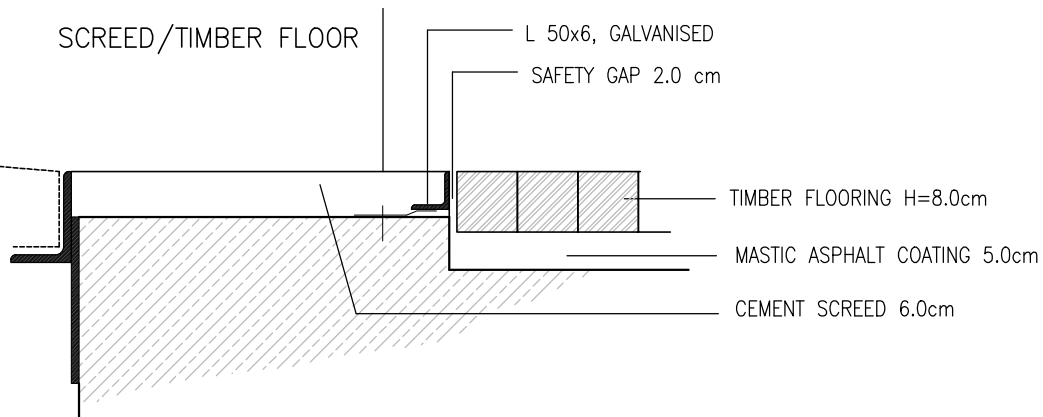
SECTION



VIEW

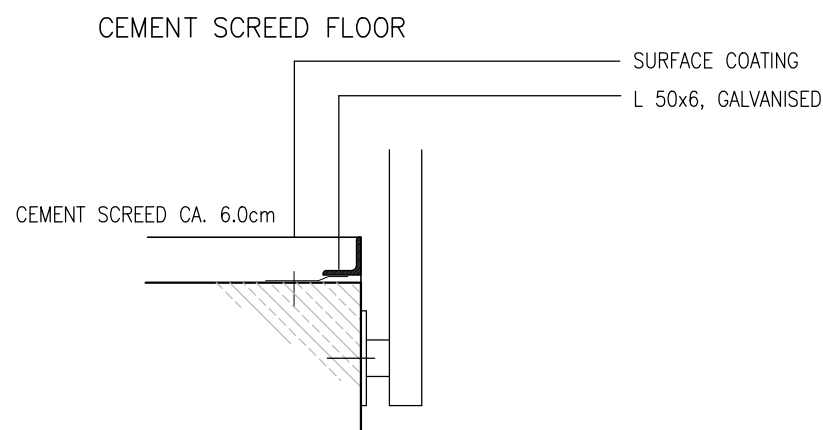
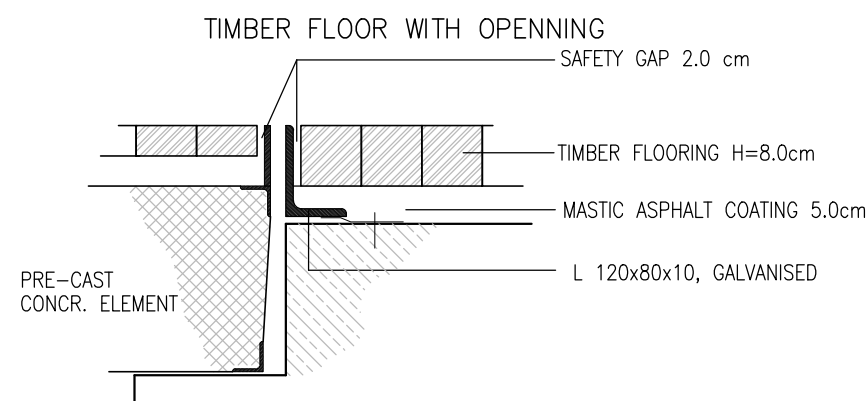
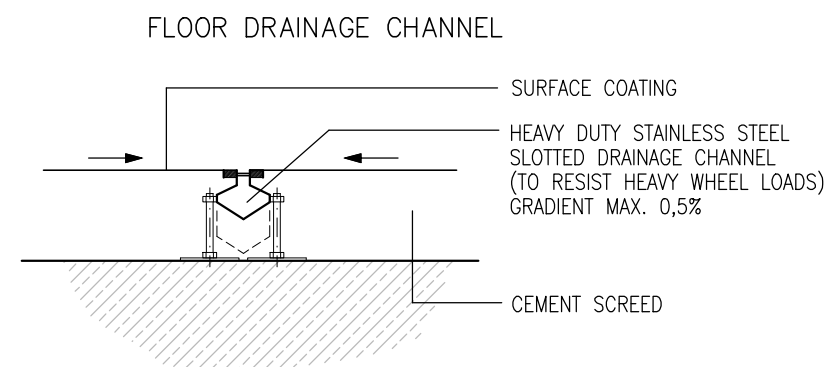
DETAIL II  
SCALE 1:50



HYDRAULIC MEASURING SENSORS  
TYPICAL ARRANGEMENT



1. ALL DIMENSIONS ARE IN METERS [m] UNLESS OTHERWISE NOTED.
2. ALL ELEVATIONS ARE ABOVE SEA LEVEL IN [masl].
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4. STANDARD DETAILS AS SHOWN ONLY FOR GENERAL PURPOSE AND MIGHT NEED TO BE ADJUSTED ACCORDING TO THE DETAIL REQUIREMENTS.

DRAFT STATUS:  
05.11.2018



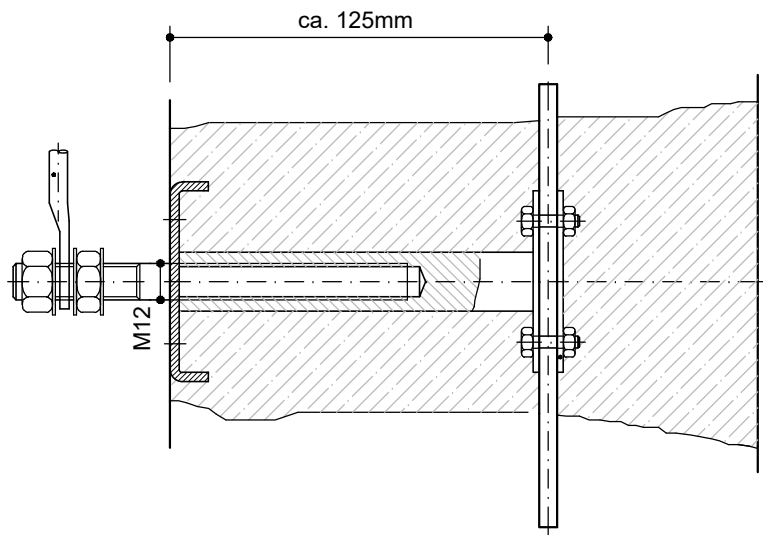
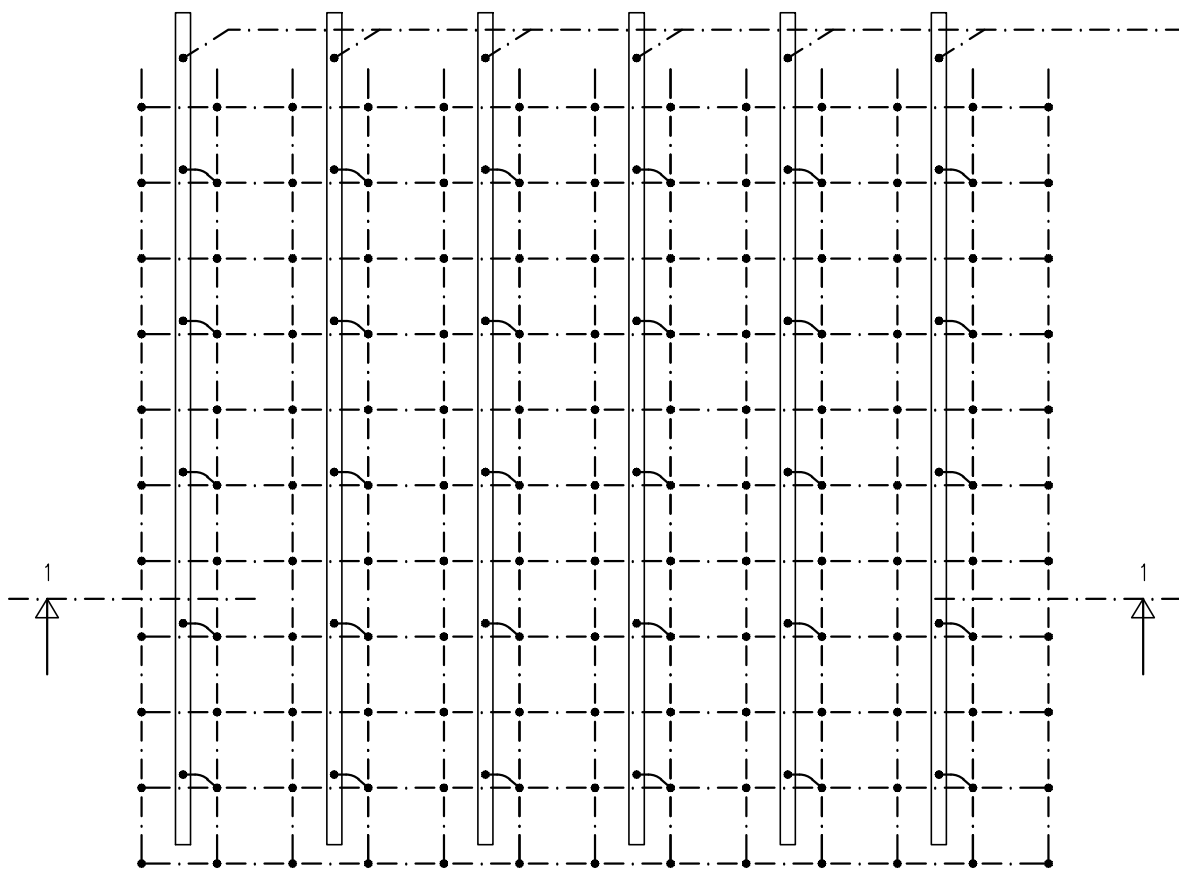
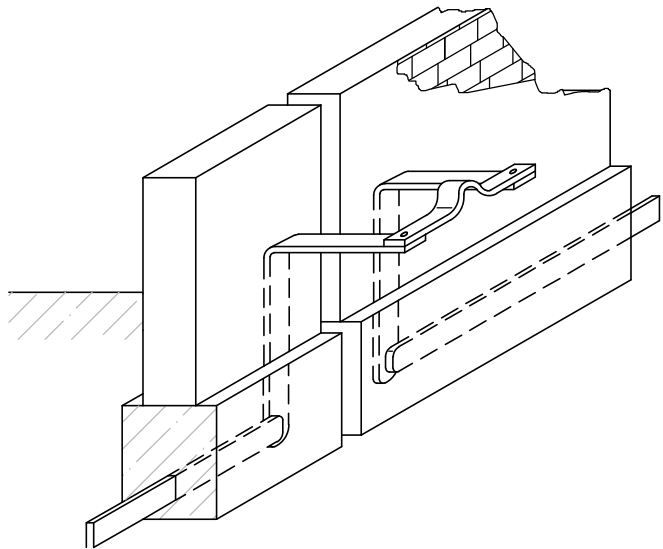
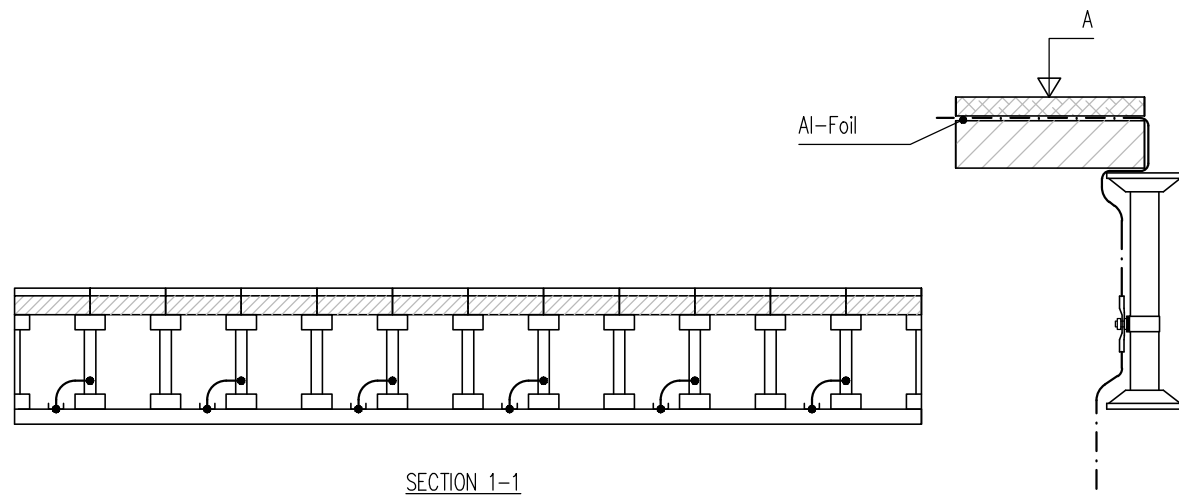
Reference Drawings				
Drwg. No.		Title		
Revisions				
	Name	Date	Notes	
 <b>TAMAKOSHI V HYDROELECTRIC PROJECT</b> PROJECT DEVELOPMENT DEPARTMENT ENGINEERING SERVICES DIRECTORATE NEPAL ELECTRICITY AUTHORITY				
 <b>LAHMEYER</b> INTERNATIONAL			CONSULTING ENGINEERS BAD VILBEL, GERMANY	
<b>TAMAKOSHI V HYDROELECTRIC PROJECT</b> <b>DETAILED ENGINEERING DESIGN</b>				
	Name	Date	DETAILED DESIGN <u>STANDARD DETAILS</u> <u>FLOOR FINISH WORKS</u>  DETAILS  PROJECT DRAWING	
Prepared	B. Khadka	31.07.17		
Drawn	B. Khadka			
Checked	Roloff			
Approved	Dr. Moeller			
Replaces Drwg. No.: 31-00053-DD-4300-Y-0000_-				
CAD- File No.:				
Scale A3: 1:10			Drwg. No.: 31-00053-DD-4300- <b>Q 1716</b>   REV. -	



NOTES:

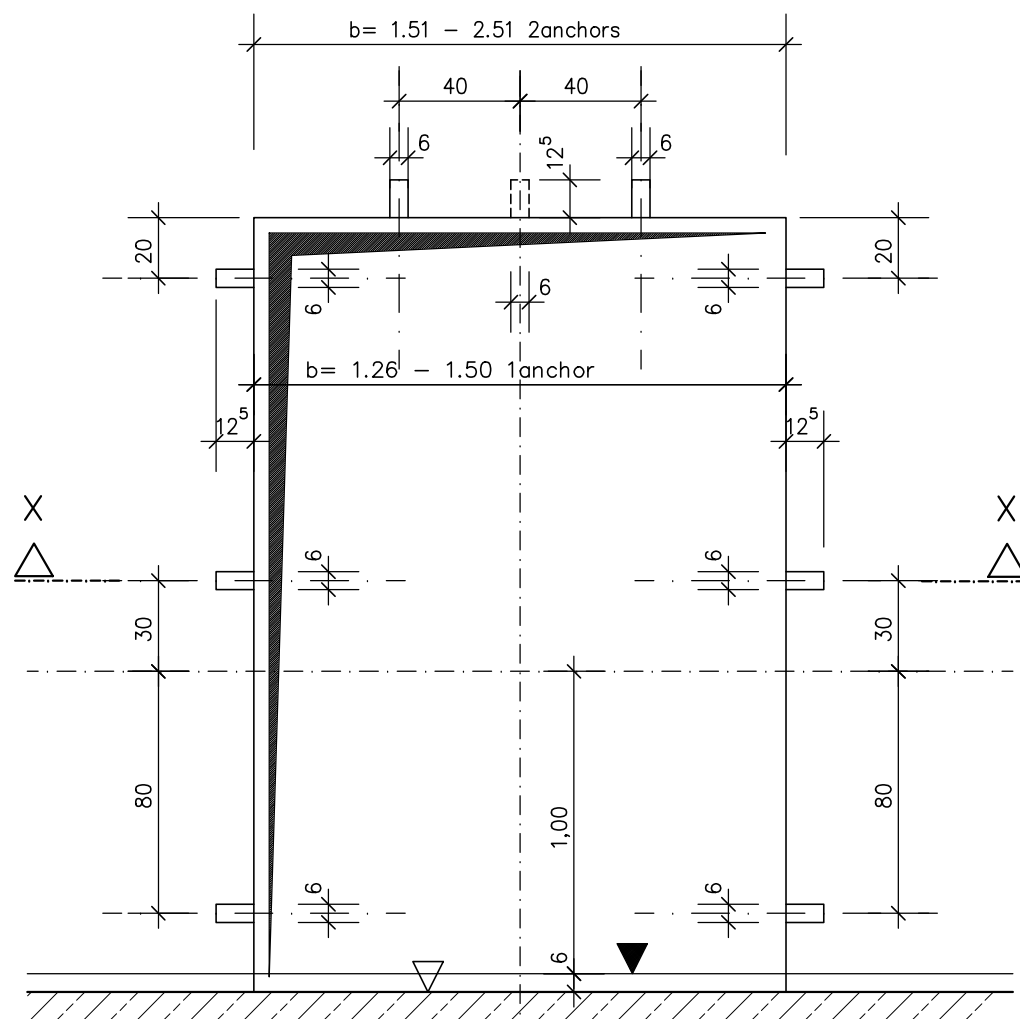
1. ALL DIMENSIONS ARE IN METERS [m] UNLESS OTHERWISE NOTED.
2. ALL ELEVATIONS ARE ABOVE SEA LEVEL IN [masl].
3. CO-ORDINATES BASED ON NATIONAL GEODETIC NETWORK SYSTEM (EVEREST 1830).
4. STANDARD DETAILS AS SHOWN ONLY FOR GENERAL PURPOSE AND MIGHT NEED TO BE ADJUSTED ACCORDING TO THE DETAIL REQUIREMENTS.

DRAFT STATUS:  
05.11.2018

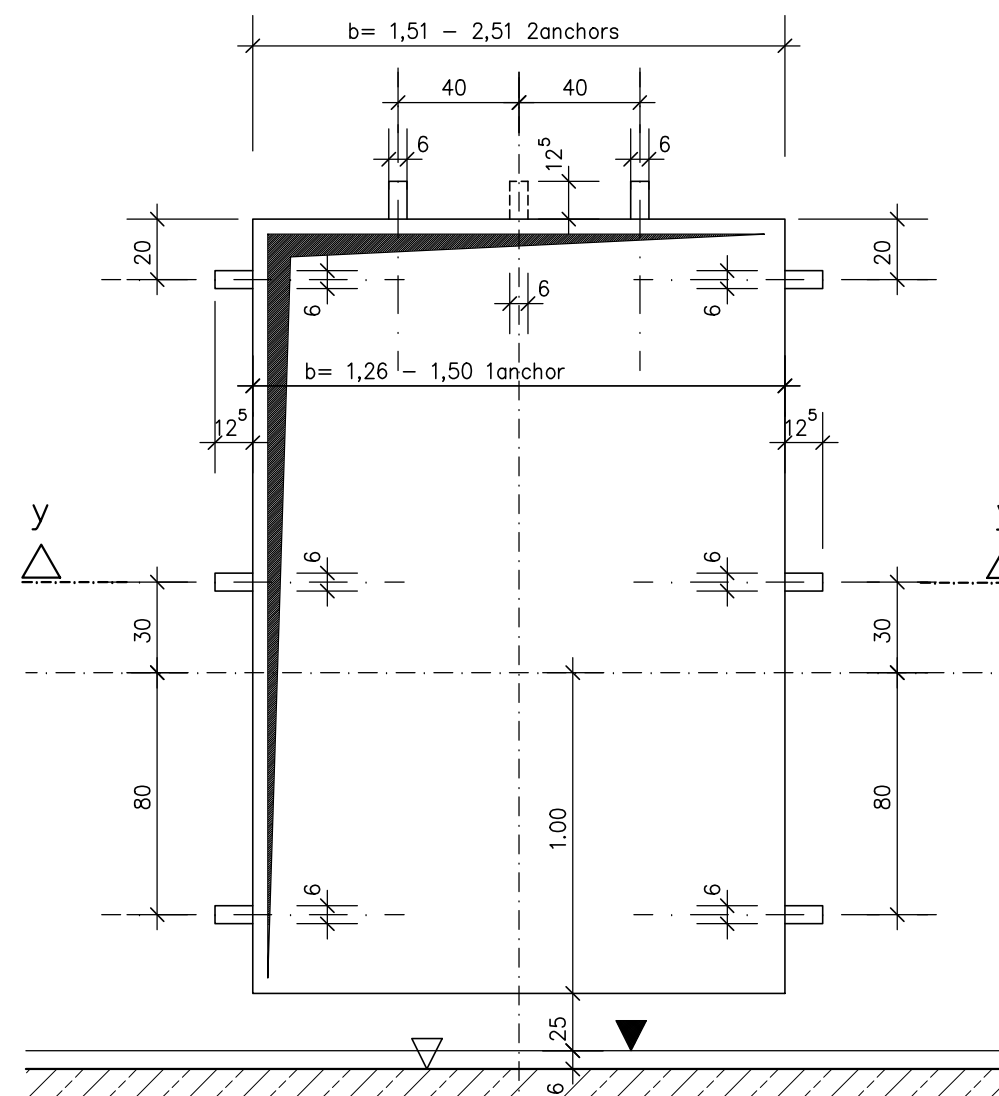


Reference Drawings				
Drwg. No.		Title		
Revisions				

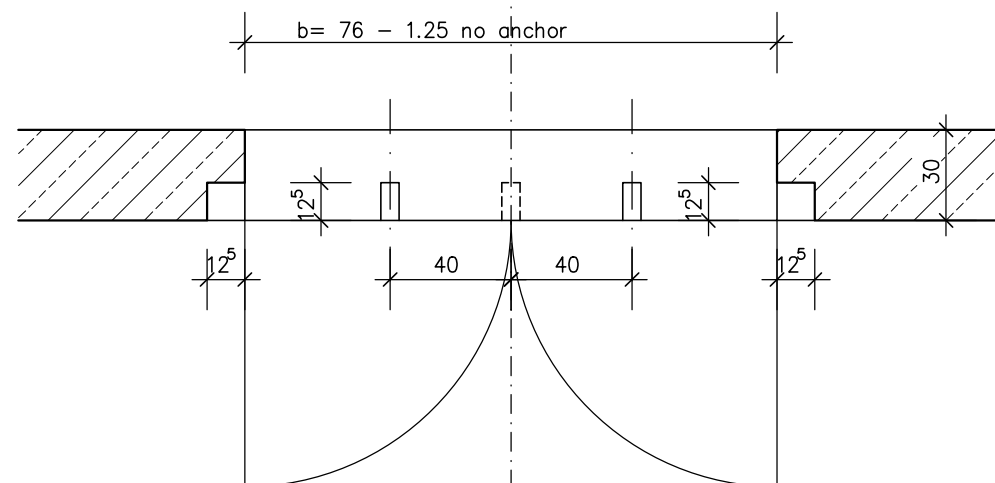
FIRE-PROTECTION DOOR



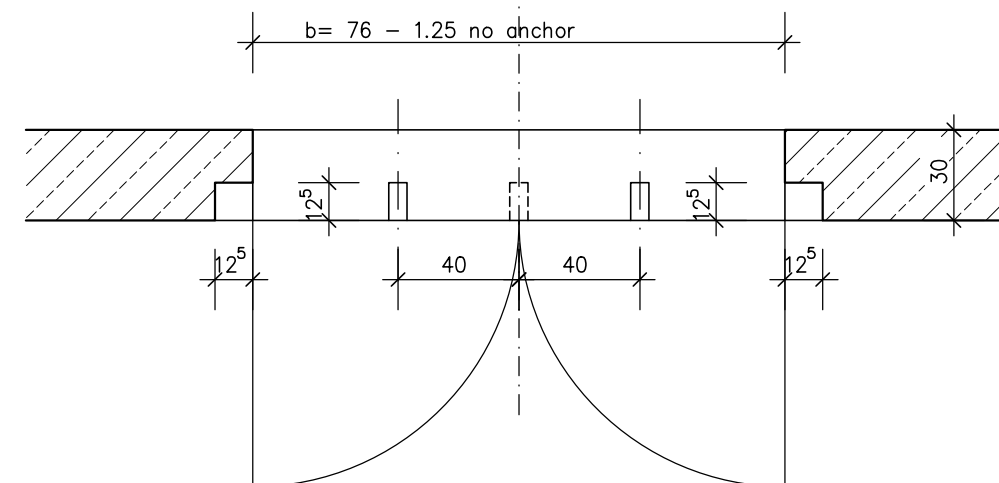
WATER-TIGHT DOOR



SECTION    x-x





SECTION y-y

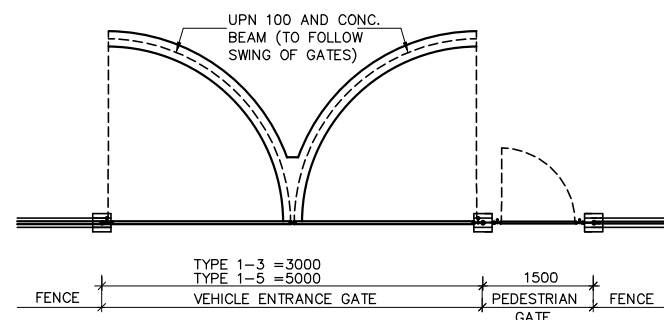
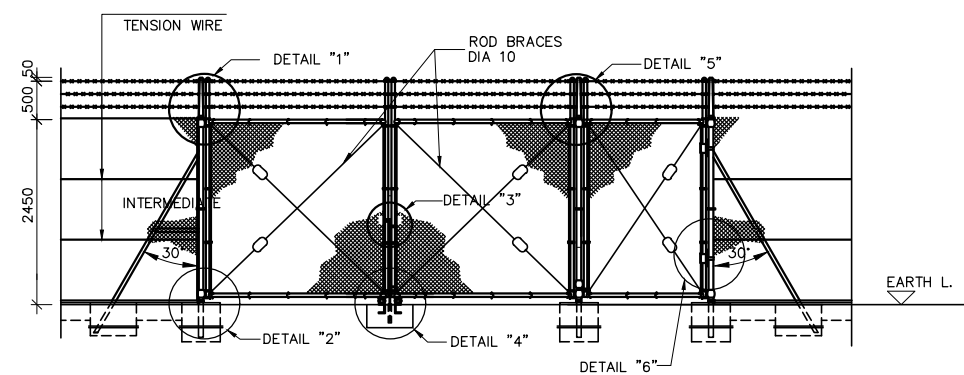


- ### NOTES:
1. ALL DIMENSIONS ARE IN METERS [m] UNLESS OTHERWISE NOTED.
  2. ALL ELEVATIONS ARE ABOVE SEA LEVEL IN [masl].
  3. CO-ORDINATES BASED ON NATIONAL GEODETIC NETWORK SYSTEM (EVEREST 1830).
  4. STANDARD DETAILS AS SHOWN ONLY FOR GENERAL PURPOSE AND MIGHT NEED TO BE ADJUSTED ACCORDING TO THE DETAIL REQUIREMENTS.

DRAFT STATUS:  
05.11.2018

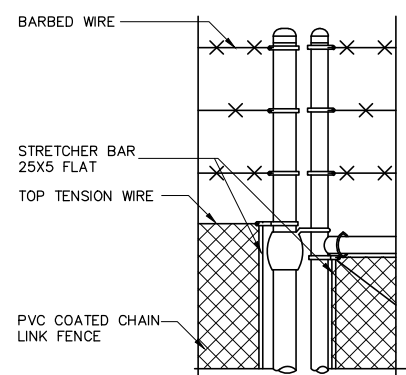
Reference Drawings				
Drwg. No.		Title		
Revisions				
	Name	Date	Notes	
 <b>TAMAKOSHI V HYDROELECTRIC PROJECT</b> <b>PROJECT DEVELOPMENT DEPARTMENT</b> <b>ENGINEERING SERVICES DIRECTORATE</b> <b>NEPAL ELECTRICITY AUTHORITY</b>				
 <b>LAHMEYER INTERNATIONAL</b>			<b>CONSULTING ENGINEERS</b> <b>BAD VILBEL, GERMANY</b>	
<b>TAMAKOSHI V HYDROELECTRIC PROJECT</b> <b>DETAILED ENGINEERING DESIGN</b>				
	Name	Date	DETAILED DESIGN	
Prepared	B. Khadka	31.07.17	<u>STANDARD DETAILS</u> <u>FIRE-PROTECTION AND</u> <u>WATER-TIGHT DOOR</u>  <b>DETAILS</b>  <b>PROJECT DRAWING</b>	
Drawn	B. Khadka			
Checked	Roloff			
Approved	Dr. Moeller			
Replaces Drwg. No: 31-00053-DD-4300-Y-0000_-				
CAD- File No.:				
Scale A3: NOT IN SCALE			Drwg. No.: 31-00053-DD-4300-Q 1718 REV. —	



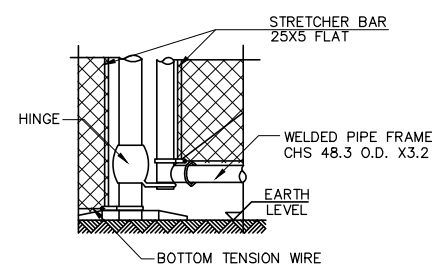


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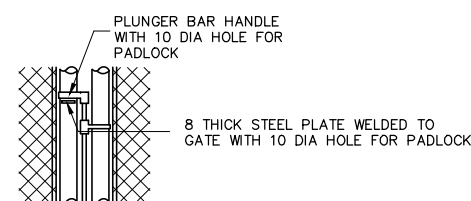
## PLAN



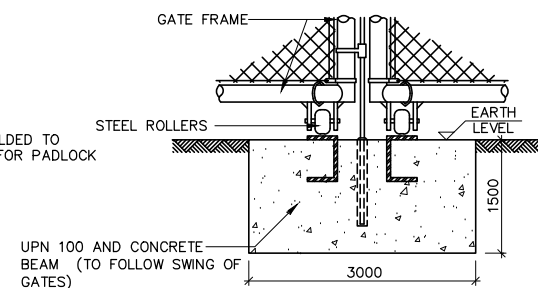
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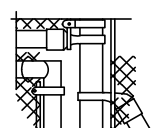
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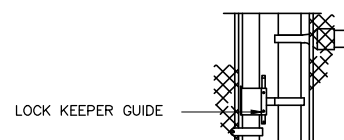
DETAIL "3"



DETAIL "4"



DEATIL "5"





DETAIL "6"

GATE AT FENCE TYPE 1

NOTES:

1. ALL DIMENSIONS ARE IN METERS [M] UNLESS OTHERWISE NOTED.
2. ALL ELEVATIONS ARE ABOVE SEA LEVEL IN [MASL].
3. CO-ORDINATES BASED ON NATIONAL GEODETIC NETWORK SYSTEM (EVEREST 1830).
4. STANDARD DETAILS AS SHOWN ONLY FOR GENERAL PURPOSE AND MIGHT NEED TO BE ADJUSTED ACCORDING TO THE DETAIL REQUIREMENTS.
5. HINGES SHALL BE PRESSED STEEL OR MALLEABLE IRON, ONE PAIR FOR EACH LEAF. LATCHES SHALL BE FORKED TYPE FOR SINGLE GATES AND PLUNGER BAR TYPE FOR DOUBLE GATES. BOTH SHALL HAVE A PADLOCK EYE AND PERMIT OPERATION FROM EITHER SIDE OF GATE. KEEPERS SHALL BE PROVIDED FOR EACH GATE LEAF OVER 1.5m WIDE AND SHALL CONSIST OF A MECHANICAL DEVICE FOR SECURING THE FREE END OF THE GATE OVER FULL OPEN POSITION.
6. FOR GATE WIDTH (W) UP TO 4m USE GATE POSTS CHS 114.3mm O.D.X4.5mm.
7. FOR GATE WIDTH (W) 5-6m USE GATE POSTS CHS 168.3mm O.D.X5.4mm.

DRAFT STATUS:  
05.11.2018

Reference Drawings			
Drwg. No.		Title	
Revisions			
	Name	Date	Notes
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<b>TAMAKOSHI V HYDROELECTRIC PROJECT</b> <b>DETAILED ENGINEERING DESIGN</b>			
	Name	Date	<b>DETAILED DESIGN</b>  <u><b>STANDARD DETAILS</b></u>  <u><b>FENCING-GATE</b></u>  <b>PLAN AND SECTION</b>  <b>PROJECT DRAWING</b>
Prepared	B. Khadka	31.07.17	
Drawn	B. Khadka		
Checked	Roloff		
Approved	Dr. Moeller		
Replaces Drwg. No: 31-00053-DD-4300-Y-0000-			
<u>CAD- File No.:</u>			
Scale A3:     NOT TO SCALE			Drwg. No.: 31-00053-DD-4300- <b>Q 1720</b>
			REV.: